AWIPS OB2 Release Notes

Section II - Discrepancy Report Fixes in Release OB2

Section II - Fixes in OB2

The following DRs have been fixed in AWIPS OB2.
They are fixes to problems opened against releases prior to OB2.

1.0 D2D/TEXT/OTHER APPLICATIONS

1.1 Climate

! Climate now successfully creates an NWWS product if executed manually and then left unattended. Previously, if the climate program were executed manually, and the user then failed to select the "Edit Climate Data" button in the Monitoring Controller window, the program timed out and ran to completion and created an NWR product, but not an NWWS product. **(DR 10680)**

! Climate now correctly creates the NWWS and NWR products when normal snowfall is a trace. Previously, statements in the products involving the snowfall amount were sometimes incorrectly worded or missing in this situation. **(DR 11748)**

! The *format_climate* and *RecordClimate* processes now read the icwf_site.env file to get the WFO long name for the text of their products, rather than the icwf_site.XXX (where XXX is the 3-letter WFO ID) file. **(DR 11795)**

! When there is a tie between two or more years for a record value, the NWR product now correctly names the most recent year that the record occurred. Previously, the product sometimes incorrectly stated an older year as being the most recent occurrence. **(DR 12075)**

! The wrong year is no longer stored for decoded MSMs or DSMs received in the current year, but whose data is for the previous year. Previously, if a raw SM product containing data for December 2002 was received and stored in the fxatext DB in January 2003, it was labeled as being from December 2003 when it was decoded and stored in the climate database. **(DR 12568)**

1.2 Color Curve/Blinking/Image Combination

! Color Curves can now be created on the Linux workstation. **(DR 9415)**

1.3 Hourly Weather Roundup (HWR)

! There is no longer a problem where the OBVIS Thresh & Marine Fields selection windows hang HWR Setup if closed via the upper-left square, because it is no longer

necessary to open separate windows for these. The new GUI now displays the Marine section on the main GUI. **(DR 11855)**

! The NWR program is now able to process the swell height in marine observations. Previously, if the swell height variable was selected for marine observations, and the observation was present, the program terminated abnormally. **(DR 11986)**

! The software design has changed such that the glasses for the Monitoring Controller no longer pop up on the text workstation after the creation of a new HWR NWR product. Users should wait for the NWR Browser to refresh after the product has been created. The NWR product will first appear in the delayed side. Users can then select the product, if they wish to edit it. They can also just let the program send the product after a short period in the delayed queue. **(DR 12466)**

! The NWR program is now able to run to completion successfully even if a station is set up without a sky/weather phrase. **(DR 12635)**

! The active/inactive flag in the NWR product is now set to "C" so that the product gets sent to the new console replacement system. **(DR 12665)**

1.4 Local AWIPS MOS Product (LAMP)

! The LAMP Time Series now successfully launches on the Linux workstation. **(DR 8998)**

1.5 Local Analysis and Prediction System (LAPS)

! The LAPS Tool GUI can now be run on the Linux workstations, in addition to the HP workstations. **(DR 8693)**

! LAPS relocalization now successfully writes the XXX-Laps_Center_Point.txt file to /data/fxa/customFiles. **(DR 9962)**

! The directories needed for the *LapsRadar.pl* script to work for more than one radar are now present. Thus, the LAPS radar mosaic functionality now works correctly. **(DRs 11561, 11564)**

! Running the LAPS relocalization no longer deletes the /data/fxa_local/laps directory. The directory structure is now remade correctly as part of the relocalization. **(DR 12077)**

1.6 Local Storm Report (LSR)

! The LSR GUI has been enhanced so that it is better able to read CitiesInfo.txt files that

have been edited on-site such that they no longer conform perfectly to the format of the baseline delivered version of the file. Previously, the LSR GUI frequently misread the file in these situations. **(DRs 11400, 12222)**

! The Date and Time fields in the "Create/Edit Event" tab of the LSR GUI now only allow two characters. **(DR 11723)**

! It is now possible to make the forecaster name entry blank in the LSR GUI. Previously, the user either had to enter a name or initials, or leave the default value of "xxx" in place. **(DR 12106)**

! The LSR GUI now allows the user to select 'unknown' for the Fujita scale rating of a tornado when the rating is not yet known. The prevents the Fujita scale parameter from appearing in the resultant text product, rather than using 'FX' to indicate that the rating is not yet known. **(DRs 12517, 12550)**

! It is now possible to edit an event in the LSR GUI that was originally created with a trained spotter (as the source) that has since been removed from the spotter list. In this case, an information box is displayed to the user describing the situation. **(DR 12598)**

! Most special characters are now not allowed to be used in the remarks section of the LSR GUI, because they cause problems for the application. The only special characters that are allowed are '-', '+', ',', '.', and '/'. If the user types a character that is not allowed into the remarks section, it is automatically removed, the machine beeps once, and the text widget blinks yellow once. **(DR 12619)**

! The LSR GUI now calculates the distance to the reference city correctly. Previously, if there was no reference city within 5 miles of a spotter, the GUI used the distance to the last city in the entire list, not the distance to the closest city in the list. **(DRs 12791, 12801)**

1.7 Looping/Sampling/Swapping Panes/Zooming

! Sampling wind barbs in a VWP Sounding no longer sometimes causes the display pane to hang. Previously, if a user sampled the wind barbs on a VWP Sounding where the wind bracket was not displayed, the display pane hung and had to be restarted. **(DRs 12424, 12450)**

1.8 MSAS

! MSAS now stores QC data to the /data/co directory rather than the /tmp directory, thus avoiding the problem where such data caused /tmp to fill up. **(DRs 12066, 12068)**

1.9 NMAP

! NMAP is now available from the Linux startup menu at those sites that use it. **(DR 11660)**

1.10 Radar

! If a radar plan view product is loaded on either the WFO or state scale with the "data scale" option on, and then a reflectivity or velocity cross section product is loaded, the display is now mapped and displayed properly. **(DR 8905)**

! Radar products now display reliably on the Linux workstation. Previously, sometimes the product legend displayed, but the product itself did not. **(DR 10482)**

! The PTL (Product List) product is now stored successfully. **(DR 10669)**

! Radar cell trend data now zoom properly. Previously, when zooming in on cell trend data, the data did not zoom, but the graph the cell data was plotted on did, so that after zooming, the data and the graph no longer matched. **(DR 10912)**

! The labeling of cell trend data works as designed. The cell trends and storms are not matched according to letter, as in Cell Trend A is for storm A, Cell Trend B is for storm B, etc. Instead, the matches are accomplished based on the storms' proximity to the points, as in Cell Trend A is for the storm nearest to point A, Cell Trend B is for the storm nearest to point B, etc. Thus, point A may load cell A2, point B may load cell X4, etc. **(DR 10913)**

! It is as designed that the Combine Attributes product no longer displays cell IDs with mapped cells. The product displays a table of current storm cells, but no map indicating where the current cells are located. To view the missing information, load the storm track (STI), CZ, Meso, and HI products. These are the products included in the Combine Attributes table. **(DR 11345)**

! The SuperOb is now transmitted to the WAN from its source directory of ../radar/kxxx/SO. Previously, it was transmitted from the badRadar directory, although the correct product was still transmitted despite this problem. **(DR 11553)**

! The 1.5 CLD Radar product can now be displayed successfully on D2D. **(DR 11899)**

! ULR product requests no longer return invalid products. Previously, ULR product requests sometimes returned products with -1, -1 for the top and bottom layer altitudes. These products were not requested, and violate the RPG/Class 1 ICD. **(DR 11976)**

! Three problems have been fixed with the VWP Hodograph. **(DR 11978)**
1) The alphanumeric product CCCVWPXXX now contains the pages of VAD wind data.
2) The VWP sounding product now displays the VWP wind data correctly on the altitude (kft, km, mb) coordinate. Previously, all of the VWP data were bunched together, with the bottom and top of the collection labeled approximately 350 and 740 respectively.
3) The VWP hodograph altitude units and legend are now consistent with the Eta (and other models' soundings) in X.X km. The hodograph for VWP is in m/s and altitude in km. Previously, the altitude was displayed in hundreds of feet (AGL).

! The Z/SRM all-tilt option now time matches properly. Previously, in the Z/SRM product for all tilts, the SRM was incorrectly matched with the Z from a tilt below (e.g., 0.5 Z was matched with 1.5 SRM). **(DR 11984)**

! Four-panel combined product radar displays (e.g. Z/SRM or Z/V combos) no longer have general time matching problems. Previously, these products were sometimes displayed with a mix of current and previous volume scan data. **(DRs 12481, 12510)**

! The fact that combining 8 bit radar reflectivity and velocity products does not produce the expected color map on the combined image on the HP workstations is a known problem that is not planned to be fixed. There are no plans to develop a color table for this type of combination. The problem is that, on the HP workstations, when two 8 bit images are combined, each image is reduced to 4 bits to facilitate the image combination. However, this problem does not occur on the Linux workstations, as the 8 bit resolutions are maintained in the combined image there. Thus, the workaround is to use the Linux workstations for this type of image combination. **(DR 12552)**

! The 8-bit Z/SRM menu items are now available on D2D. **(DRs 12556, 12557)**

! The 8-bit SRM product now displays the correct label in the product legend when it is displayed as part of a combined image. Previously, the legend incorrectly labeled the product as the 8-bit Velocity product in this situation. **(DR 12671)**

1.11 Record Climate

! Record Climate notification now successfully displays Red Banner and GSM messages on Linux when multiple records are broken. Previously, when multiple records were reached, the Linux workstation only displayed a Red Banner and GSM message for the first reporting station's record. **(DR 11157)**

! The Record Climate product now correctly displays the time in the 12-hour clock format in the mass media header. Previously, the 24-hour clock was used to format this time, resulting in displayed times of, for example, 1433 PM instead of 2:33 PM. **(DR 12107)**

1.12 Surface

! The Zone FFG product now displays successfully on the Linux workstation at RFCs. **(DR 10336)**

! Extremely cold temperatures now display successfully on the synoptic plots. Previously, temperatures below 60 degrees F did not display on the synoptic plots, even though the data were present in the netCDF file. This threshold has been changed, so that now temperatures up to -130 degrees F will display successfully on the plots. **(DR 12003)**

! The Svr Wx Plot product on D2D in the NCEP/Hydro menu now displays successfully on the Linux workstation. **(DR 12565)**

1.13 System for Convection Analysis and Nowcasting (SCAN) and Flash Flood Monitoring Program (FFMP)

! When no DHR radar products are coming in, the FFTI button remains gray to indicate this situation. **(DR 8897)**

! The Supplemental Precip Data radar product is now displayable on the text workstation. **(DR 11923)**

! The SCAN New Event Warning/Indication box now pops up to the left of the main D2D display pane, rather than in the middle of the screen. **(DR 12447)**

! The SCAN trend set window now displays fully within the monitor screen. Previously, the window sometimes appeared above the top of the screen, making it impossible to grab the window in order to move it or to select the close button. **(DR 12610)**

! The *FFMPprocessor* is now able to successfully process and use the gage bias flag and the gage bias data received from ORPGs running Builds 3 or 4. **(DR 12650)**

1.14 Text Product

! The output of the **textdb -v** command has been enhanced to clear up confusion. **(DR 7826)**
In Release 5.0, the use of WMO headers was added to all text products. This change caused the number of versions of a product being stored to not necessarily match the number in the versions table, because some products come in under multiple WMO headers. For example, if a site is set to store 25 versions of BOSMTRBOS, there will be 75 versions of this product in the database, because the METARs can come in under three different WMO Headers. The number of versions stored is based upon both the AFOS

Product ID and WMO Header ID. However, this can cause confusion, because there may appear to be old data in the database that are not being purged, and because it can result in more versions of a product being stored than expected. The output of the **textdb -v** command has been enhanced to better illustrate this situation.
Previously, entering **textdb -v BOSMTRBOS** yielded:

Current versions to keep in text database for BOSMTRBOS is: 25

Now, entering the same command yields:

Versions to keep for SAUS41-KBOX is: 25
Versions to keep for SAUS70-KBOS is: 25
Versions to keep for SPUS70-KBOS is: 25
Total versions to keep for BOSMTRBOS is: 75

! The fxatext database should no longer infrequently fill up. One change that was made to address this problem was to set the number of versions of the NOAFOSPIL product that are stored in the database to 5 by default. This number can be changed manually from the command line using the **textdb -v** command as desired. **(DR 12579)**

1.15 Text Workstation

! The typo in the error dialog that is received when trying to retrieve more than 1000 records has been fixed. Previously, the dialog stated “There are too maly matched products in the database”. The word ‘maly’ is now written correctly as ‘many’. **(DR 5838)**

! Torn off text workstation menus can now be torn off again if a text window is closed and then reopened. Previously, if a menu in a text window was torn off, and then the text window was closed without first closing the torn off menu, the menu could not be torn off again if the text window was reopened. **(DR 8642)**

! The *TextDB -read* process no longer infrequently crashes when a user requests a product ending in 000 from a text window. **(DR 12001)**

! The Proximity Alarm now successfully generates a warning for products that have very long UGC lines and the subsequent UGC lines do not include a state name. **(DR 12727)**

1.16 Tools

! When an display pane restarts after a crash, it now restores the magnification, density, and looping state parameters to what they were before the crash. Previously, these parameters returned to their default settings after a display pane crash, even though the menus still displayed the settings in effect previous to the crash. **(DR 740)**

! The Met Calculator now has a title for each of its sections to make it more user-friendly.

(DR 10753)

1.17 Upper Air

! In the Interactive Skew-T, selecting “Lift Parcel” twice after editing a skew-T no longer causes some parameters to change twice. All parameter recalculations should occur successfully the first time “Lift Parcel” is selected. **(DR 8339)**

! In the Interactive Skew-T, selecting “Undo”, then “Lift Parcel” now successfully changes the skew-T parameters. Previously, if changes made to a skew-T were undone using “Undo”, and then “Lift Parcel” was selected, no parameters changed, and the interactive skew-T session had to be restarted to restore normal functionality. **(DR 8341)**

! All points (A-J) are once again available for use on Interactive Skew-Ts of model soundings. This allows the user to operate interactive skew-T sessions on any of multiple model soundings plotted at different points in the same display. Previously, only Point A could be used for interactive Skew-Ts of model soundings. **(DR 10883)**

! The time required to display the High Density Winds product on D2D is longer than for most other products. It can take as long as one minute to display twelve frames of this product on the Linux workstations, and as long as five minutes to display it on the HP workstations. This is because this product loads a very large amount of data and must read the netCDF file once for each layer depicted in the product (8x). There are about 35000 points in a file for each hour. To minimize the wait time, use the Linux workstation to display this product, and load the fewest number of frames necessary. **(DR 12410)**

1.18 Volume Browser/Grid Products

! A D2D pane no longer repeatedly reports no data inventory available once the netCDF file for the selected product becomes populated. Previously, if a user selected a grid product whose netCDF file was zero length, a red banner for no data inventory was received. However, if data for that product were then received, subsequent requests for data that were now available still resulted in a red banner. **(DR 5307)**

! The AVN Bufr MOS 6Z and 18Z messages are now decoded and stored, in addition to the 0Z and 12Z messages. **(DR 10813)**

! The cdl files for gridded data have been updated to have a valid range of -1000 to 1000 for cin. This allows both GFE and D2D to read and display the data correctly. **(DR 12312)**

2.0 INTERACTIVE FORECAST PREPARATION SYSTEM (IFPS)/WATCH WARNING ADVISORY(WWA)

! The problem where, if a WWA product was only saved on the text workstation, it appeared as issued in WWA, is no longer a problem due to redesigns in the WWA application. The text product no longer pops up on the text workstation, but instead appears in a WWA text window on the same screen as the WWA session. **(DR 5077)**

! When generating WWAs and using inter-site coordination, the entire WMO header now appears in the MHS request and receive server logs on DS1. Previously, the WMO header appeared only as the last two letters of the PIL of the product being transmitted in these logs, but this did not affect transmission of the product. **(DR 5933)**

! There is now a toggle switch in the WWA Admin GUI that allows sites to specify whether CRS-formatted products are automatically sent to adjacent sites or not. **(DR 8691)**

! SAWs and SEVs that happen to have the same ID as the watch counter internal_id are now successfully purged from the WWA database. **(DR 8701)**

! The problem where, at sites with very large CWAs, the *wwaServer* sometimes stopped processing products after a WarnGen or WWA text product was sent from the text workstation, is no longer a problem due to redesigns in the WWA application. The text product no longer pops up on the text workstation, but instead appears in a WWA text window on the same screen as the WWA session. **(DR 9051)**

! A warning message concerning missing information no longer sometimes appears when WWA is launched. **(DR 9367)**

! Advisories and watches that are created and valid for next day only (e.g., 4am-4pm) are now formatted with the correct times and time format as specified by the OS guidelines. **(DR 11908)**

! The Fire Weather Zone map now displays correctly at all sites. **(DR 11910)**

! When creating new WCN products from SPC's WOU products, the VTEC string is no longer missing the last Z before the /. Previously, in the following example, the last Z was missing: /NEW.KICT.TO.A.0088.000323T1010Z-000324T1000Z/. **(DR 12242)**

! The limit for the number of WWA sessions that can be launched simultaneously on a single workstation, either directly or remotely from other workstations, has been increased from two to four. **(DR 12243)**

! Backup zones/counties no longer erroneously appear in the local site text product after first working with products from an adjacent site in WWA. Previously, after selecting products in the Monitor from an adjacent site, if the user selected "New" to format a product for the local site, the text which was eventually created contained the UGC codes for the area in the selected adjacent sites products. **(DR 12349)**

! The WCN product is now successfully generated when both the SEV and WOU products for a watch are stored, and the WCN product is also now successfully generated when the WOU product is received between 12 and 1 am. **(DR 12525)**

! When creating a NEW WWA product, the issuance time is now correctly set to the current time, rather than to the time of the previously issued product created in WWA. Also, when canceling, the expiration time is now advanced the required one hour in time. **(DR 12566)**

! The headline editor no longer puts a space after the ellipses (...) in the resultant product. Previously, the insertion of this extra space caused the NWR text capture to fail. **(DR 12638)**

3.0 HYDROLOGY

3.1 HydroMap/Multisensor Precipitation Estimate (MPE)

! The Disagg program now correctly indicates in its log that no new records were found if none were processed. Previously, the log did not indicate this fact. Note: The program may still need to be set up after install. If so, refer to the accompanying documentation from OHD for more information. **(DR 11897)**

! The following option menus now display fully in HMAP/MPE on Linux:
On Flash Flood Guidance - FFG Area, Dur, and Display As.
On Point Precipitation Accumulations - Sort.
On Multi-Hour Precipitation Accumulation - Duration and Display As **(DR 11901)**

! It is now possible to print color screen prints of hmap_mpe on the HP workstations. **(DR 12624)**

! Editing hmap_mpe timeseries no longer causes the program to crash. Also, gage data retrieval operations have been optimized and are now accomplished faster. **(DR 12625)**

3.2 National Weather Service River Forecast System (NWSRFS)

! The xdat program now includes the OB1 and OB2 databases in its list of allowed

database names. **(DR 12136)**

! The menu items for the RFC hydrology applications have been removed from D2D on the HP workstations. Previously, these menu items appeared in the D2D Hydro Submenu in the NCEP/Hydro Menu (via a #include statement to include the file otherHydroAppMenus.txt). These items were removed as a result of the shared localization implemented in OB2 (the #include statement was removed). The menu items are not present on the Linux workstations because the applications are not designed to run there as awipsusr, and to make the localization files the same between the HP and Linux workstations for shared localization, the menu items had to be removed from the HP side. The workaround is to use the Root or System Control menus to launch the applications. **(DR 12532)**

3.3 Omniback

! The /awips/gis directory is now backed up by Omniback. **(DR 10941)**

4.0 LOCAL DATA ACQUISITION AND DISSEMINATION (LDAD)

4.1 Configuration/System

! When modifying a file using LDAD admin, the ldadAdmin log is now correctly written to /data/logs/ldad. Previously, it was written to /awips/fxa/htdocs/ldadMon/log. **(DR 5244)**

! The /data/fxa/LDAD/data directory on DS1 is now backed up by Omniback. **(DR 10690)**

! Disabling the echo function in the /etc/inetd.conf file on LS1 no longer results in the external LDAD processes incorrectly being reported as down in the LDAD Monitor section of the Netscape Monitor. The *MakePROCpage* process tests both ICMP and TCP responses from LS1, and now if either is up, it checks for processes. Previously, both responses had to be up for the processes to be checked; if one was down, the processes were reported as being down. **(DR 11432)**

4.2 Scheduler

! An error message is no longer displayed within the LDAD Scheduler when the “New Request” button is selected. **(DR 3870)**

! All session files are now listed and selectable in the LDAD Scheduler. **(DR 5076)**

! It is by design that the LDAD Scheduler is only available through D2D on the Linux

workstations. **(DR 9525)**

! The ldadScheduler once again checks a new gauge ID against existing IDs, thus preventing an existing gauge with the same ID from being accidentally overwritten. When a user creates a new gauge entry from the ldadScheduler that is the same as an existing gauge, a message appears warning the user that they are about to overwrite an existing ID. **(DR 12201)**

4.3 Emergency Manager Decision Support (EMDS - Web Dissemination)

! Removing or modifying certain directories on the LDAD server causes *hmIngest* (and EMDS) to fail to properly store data. The critical files are in ls1:/ldad/data/ingest, ls1:/data/ldad/factor, ls1:/ldad/data/scale, and ls1:/ldad/data/localizations. If a site needs to modify these files, a full EMDS localization may need to be run, and/or some manual modifications may need to be made to the ls1:/ldad/data/localizations/*.mnu files (to match the new names of the files created by *hmIngest* in ls1:/data/ldad/public/javadata). The site will notice if there is a problem because data that was previously viewable on EMDS will not be. The display files will appear in /data/ldad/public/javadata, but they will have slightly different names (like temperature spelled out instead of just temp). The fix is to find the name in the appropriate menu (*.mnu) file and change it to match the new name. **(DR 12615)**

5.0 SYSTEM

5.1 Archive Server

! Removing directories to be backed up is now successful. Previously, if a user removed a directory from the list of directories to be backed up, but did not enter the word NONE in place of the directory, the directory would still get backed up. Now, the user does not have to enter the word NONE. The application assumes a blank entry means NONE, and the directory does not get backed up. **(DR 11297)**

! The SetUp GUI has been enhanced so that the user can double click on a directory to delete it, and the user has the ability to restore the original configuration if desired. **(DR 11298)**

! All directories in /data/fxa now appear in the Setup GUI. Previously, those directories that were symbolic links failed to appear in the Setup GUI. **(DR 11840)**

! It is no longer possible to have blank lines in the Setup GUI. This prevents the problem where if the user left a blank line between entries in the GUI and selected save, all entries

after the blank line were deleted, resulting in some directories never being backed up. **(DR 11942)**

! The word 'take' is now included in the Warning Message pop-up for the Archive Compressor GUI. Now, when the user selects the "Archive" button, a warning message appears stating:
"Are you sure? Please note that this can take a long time, and use a lot of system resources. The program may act as though it is not responding, this is not the case. The status window will update." **(DR 11943)**

! It is now possible to make multiple selections in the Make CD or DVD GUI by holding down the **<Shift>** key and selecting entries with mouse button one. **(DR 12055)**

! The archiver now correctly reports the capacities for CDs and DVDs. The GUI now has a select panel to select the proper media, and it reports the correct space for the selection. **(DR 12056)**

! The archiver GUI now shows the directories being compressed as it is compressing them, giving the user an indication of the progress of the operation. **(DR 12059)**

! The /etc/hosts.equiv file on the RFC Archive Server now includes entries for the HP and Linux workstations, the NCF, and the backup NCF. This allows the NCF to get to the machine, and allows those machines to access Informix. **(DR 12148)**

! The *config-system.sh* script run on the RFC Archive Server no longer halts about half way through its execution, waiting for the user to type exit. The script no longer expects input from the user. **(DR 12151)**

! The *config-system.sh* script run on the RFC Archive Server no longer reports an error trying to perform a chown on the /rfc_arc_data/q/raw directory. **(DR 12152)**

! The *config-system.sh* script run on the RFC Archive Server now correctly reports the version of freeware being installed on the server, and no longer instructs the user to change the password for the archiver user. **(DR 12153)**

! The Informix engine on the RFC Archive Server now successfully starts up during installation. **(DR 12156)**

5.2 Asynchronous Product Scheduler (APS)

! The *asyncScheduler* process no longer infrequently crashes due to a tcdrain error. **(DR 9710)**

5.3 Decoders

! An Unstored Descriptor 0 error message no longer appears in the *RaobBufrDecoder* log. This error message did not affect the processing and storing of data even when it was present in the log. **(DR 4029)**

5.4 Failover/Reboot

! Existing D2Ds freeze and new D2Ds no longer hang during start-up after swapping back to DS1. **(DRs 2549, 4272)**

! The *startAsyncScheduler* remsh to AS1 no longer remains running on DS1 after the DS swap package run is complete. **(DR 6508)**

! A PX reboot no longer disables the PX's network. **(DR 11673)**

! It is no longer necessary to restart D2Ds after a PX failover. Previously, it was sometimes necessary to remount /px1data and restart D2Ds on some workstations in order to display Grid and Satellite data. **(DR 11675)**

! The PXs are now able to remsh into the AX as root. **(DR 11689)**

! The /px1data and /px2data partitions are now successfully remounted automatically on LX1 and LX2 after a PX failover. **(DR 11860)**

! The preprocessROSA.log log file no longer erroneously reports that ROSA products fail to store to the database when the dsswap package is running on DS2. Previously, ROSA products were stored successfully in this situation, but the log reported that the product failed to be stored. **(DR 12120)**

5.5 General

! The version of the Linux freeware software is now consistent across the LXs, PXs, and AX. Previously, the software was current on the LXs, but not on the PXs or AX. **(DR 11973)**

! $PATH has been moved to the end of the PATH assignment statement in fxa's .environs file so that the AWIPS directories always supersede whatever is contained in the default PATH. This corrects a problem where awipsusr, in certain situations, ended up using the Red Hat /usr/bin executables instead of the AWIPS executables in /usr/local/tcltk/bin. One result is that D2D can now be launched on the Linux workstations after issuing xhost +. **(DR 12125)**

! The ipc.config file has been moved to the /awips/fxa/data directory. This is now the only place where the ipc.config file should exist. Since AWIPS will try to use other versions of the ipc.config file from other directories if they exist, it is important that there be no other versions of the file in other directories such as /data/fxa/nationalData, /data/fxa/customFiles, /awips/fxa/data/localization/LLL, etc. Also, if a localization run fails, a version of ipc.config may be left in /awips/fxa/data/localizationDataSets/<LLL>. If this occurs, remove this version before resuming operations. **(DR 12141)**

! The Netscape CPU Monitor now launches and functions correctly on the Linux workstation. **(DR 12184)**

! The netCDF perl package is now included as part of the perl installation on the Linux workstation. Previously, this package was included during installation on the HP workstation, but not the Linux workstation. **(DR 12264)**

! Four missing WordPerfect fonts have been added to Acrobat Reader's Font directory on the Linux workstation. These missing fonts mainly prevented some bullets from being properly displayed in the text of the SMM document. **(DR 12333)**

! It is by design that a CPU Monitor launched from Netscape on any Linux graphics monitor or X-term at a particular workstation opens on the middle graphics monitor of that workstation (:0.0). This is similar to the HP workstation, where the CPU Monitor likewise always opens on the left graphics monitor (:0.0). **(DR 12482)**

! Adding products to the /awips/fxa/bin/fxa-data-addons.purge file on a given server that must be accessed across the network can cause high NFS usage and severely slow server operations. Examples of this are adding radar or LAPS directories to the PX /awips/fxa/bin/fxa-data-addons.purge file, or grid or satellite data to the DS /awips/fxa/bin/fxa-data-addons.purge file. Be sure that, when editing the /awips/fxa/bin/fxa-data-addons.purge file on a given server, you add data to the appropriate server's file so that purge will not have to run across the network to reach the directories being added. Also, the fxa-radar.purge and laps-data.purge files should be used for radar and LAPS data, respectively. **(DR 12595)**

! The environment variable FILE_SERVER_DEFAULT_PATHS +${LDAD_HOME}/data has been removed from the Linux environs files. **(DR 12616)**

5.6 Localization/Installation

! The *InstallLXxxx.sh* script no longer installs the rhost file during install. When the script tried to do this in previous release installations, it tried to create the IFPS .rhost file on RFCs, which do not have IFPS. **(DR 11414)**

! The localization script *makeGridSourceTable.csh*, run during the -grids localization task, has been changed so that it now overrides the activeGridSources.txt and inactiveGridSources.txt files based on the DISPLAY localization (FXA_LOCAL_SITE) instead of the ingest localization (FXA_INGEST_SITE). This clears up problems with displaying grid products that resulted from creating service backup localizations for geographically distant sites. Thus most sites will not be affected by this change, but it will be beneficial in situations such as MTR doing service backup for HFO, or MFL backing up SJU. **(DR 11866)**

! Linux/NFS mount problems no longer rarely occur during localization when the *localizeForFFMP* script (run during the scan localization) tries to write from a Linux workstation across the NFS mount to the /data/fxa/radar partition on DS1. SCAN localizations run on the Linux workstation should now always run smoothly with no problems. **(DR 12203)**

! The /data/fxa/point/LSR directory is now successfully created if necessary during installation. Previously, this directory was sometimes missing after installation, resulting in problems using the LSR GUI. **(DR 12303)**

! The GOES Imager Configuration File has been revised to reflect activation of the new GOES East Imager. During the period when OB2 is fielded, GOES-12 will occupy the "GOES East" station while GOES-10 will occupy the "GOES West" station. This satellite configuration is reflected in the GOESImagerInfo.txt text file. This file was initially added to OB1 to reflect the GOES-8/GOES-10 scenario of the early OB1 era. Around the time of GOES-12 activation (April 2003), GOES East sites at OB1 modified GOESImagerInfo.txt to reflect the new configuration. However, in order to ensure that all AWIPS sites are consistent with respect to this file, the OB2 version of this file will be corrected so that it will be redeployed universally. Any erroneous or outdated versions of the file will thus be overwritten with the corrected version. For reference, the GOESImagerInfo.txt file resides accessible to the PXs and workstations in /data/fxa/nationalData. **(DR 12416)**

! The /etc/hosts.allow and /etc/hosts.deny files are now made consistent on all the Linux machines (LXs, PXs, and CPs) by the *postinstall* script during installation. **(DR 12462)**

! The *Backup_LX.sh* and *Restore_LX.sh* scripts now back up the same files (i.e. all necessary files) regardless of the value of the SITE_TYPE variable, i.e., regardless of whether the site is a WFO or an RFC. Previously, these scripts relied on SITE_TYPE to determine whether to back up all necessary files, or just those an RFC should have. **(DR 12611)**

5.7 NOAA Weather Wire Service (NWWS)

! The first half of the NWWS transmission thread now notifies the user if a product fails to be transmitted to the weather wire successfully. The first half of the thread is *transferNWWS* to *handleOUP* to *distributeProduct* to MHS. If a failure occurs in this part of the thread, notification is now sent to the user in the form of a pop-up window on the screen the user is currently using. For example, if *handleOUP* fails in its attempt to transmit the product over the WAN, the script exits with a message in its log that WAN dissemination failed, and a pop-up window appears on the user's screen reporting the failure. The keep alive message monitors the second half of the thread, that is, *NWWSProduct* to *NWWSSchedule* to uplink. **(DR 5134)**

5.8 Printing

! Displays of Skew-Ts and Hodographs now print correctly on the Linux workstations, but still do not print correctly on the HP workstations. This problem is not planned to be fixed on the HP workstations before they are phased out. Thus, all printing of Skew-Ts and Hodographs should be done on the Linux workstations. **(DRs 12002, 12007)**

5.9 Product/Process/System Monitoring

! Process accounting has been turned off on the Linux workstations. This prevents the problem where the log output from process accounting fills up /var. **(DR 10707)**

! The tardy gif image now displays successfully in the Data Acquisition window of the LDAD Netscape Monitor when ALERT data is 15 to 30 minutes late. **(DR 11421)**

! The Netscape Process Monitor now monitors the PX processes. **(DR 11677)**

! The data monitor scripts now run successfully on the PXs. **(DR 11719)**

! The Netscape Data Monitor now includes information concerning the aircraft (pireps/aireps) data ingest. **(DR 12144)**

5.10 Radar System

! A poorly formatted RPS List that includes a blank line at the bottom of the file and a product mismatch between the top product number and the actual product count no longer disrupts the x.25 dedicated Radar Connection. The radar system can now successfully handle these problems and can continue successful processing of radar data. **(DR 6501)**

! The *RadarServer* now correctly reports test mode when the ORPG is switched to test mode. Previously in this situation, the *ORPGCommsMgr* reported test mode, but the *RadarServer* continued to report operational mode. **(DR 10617)**

! If an RPS list needs to be sent to the RPG, for example when the radar changes mode, and the "current" RPS list does not exist for some reason, an RPS list is created from the default mode list and the national mode RPS list, and that is then sent to the RPG. Previously, if the "current" RPS list did not exist, no RPS list was sent to the RPG, resulting in the loss of radar connectivity. **(DR 10695)**

! The number of products stated in the tcp national data collection rps lists, rps-RPGOP-tcp.storm and .clearair, is now correctly set to 34 and 27 total products, respectively. Previously, the number of products indicated within these files was 24. This was simply a typo in the files that did not prevent sites from receiving the correct number of products. **(DR 11296)**

! The *ORPGCommsMgr* log now correctly reports 'clear air' when the radar goes into VCP 32. Previously, a typo resulted in it reporting 'clean air'. **(DR 12061)**

! The *RadarStorage* process no longer sometimes crashes due to a GSM receipt. Previously, when an associated dedicated radar feed was configured via TCP/IP from a site to the radar in question, the *RadarStorage* process sometimes crashed with a segmentation violation upon receiving GSMs from that radar. **(DR 12088)**

! The mandatory NIDS composite reflectivity radar product, product code 36, is now included in the /data/fxa/nationalData/rps-RPGOP-tcp.clear-air file, and is now being transmitted over the WAN by AWIPS. **(DR 12382)**

! The *ORPGCommsMgr* process no longer reports an error when the SuperOb (Product 136) is requested or received. Previously, errors were reported in the *ORPGCommsMgr* log in these instances, even though the product was successfully requested, received, and stored. **(DR 12422)**

! All duplicate RPS list products are now filtered before an RPS list is sent to the RDA. Previously, some duplicate SRM products did not get filtered during the merge between the national and local RPS Lists, resulting in duplicate products in the resultant RPS list. **(DRs 12480, 12535)**

5.11 System Process/Log

! A traceback error is no longer logged in the *warnGenWish* log on the workstation when creating a Short Term Forecast in WarnGen. **(DR 5955)**

! Due to reductions in the number of days logs are retained and increases in disk space, the amount of logging done by processes such as the *RadarServer*, *RadarStorage*, *RadarTextDecoder*, *wfoApi*, *acqserver*, and *routerShefEncoder* processes no longer poses

a potential disk space problem, and thus will not be reduced. **(DRs 8188, 8189, 8191, 8192)**

! The *notificationServer* no longer logs SeqOf index out of range errors when a D2D is started. **(DR 8861)**

! The *breakAnnouncementFiles* process no longer reports an error removing RADAR and SYSTEM Announcer files on DS1 at new day. The files always got broken and purged successfully despite this error, but now the error no longer occurs either. **(DR 8957)**

! The *TextDB_Server -Read* process no longer infrequently crashes due to having problems with products that are being alarmed on. **(DR 9221)**

! The *.PNG files created by the Screen Capture program are now purged from /tmp after two days on the Linux workstations. Previously, these files were not purged at all. **(DR 9420)**

! The OZ GOES Sounder satellite products (e.g. Sfc Skin Temp, Lifted Index, Precip Water) now get stored with the correct date on the files. Previously, the 0Z products were stored with the date from the previous day on them. **(DR 9836)**

! The *CommsRouter* no longer crashes when it receives a long request pattern. The maximum number of subexpressions that can be processed has been increased from 10 to 24. **(DR 10691)**

! Text Decoders now read their configuration files correctly in the case where the file (e.g., TextDBPatterns.txt) has less patterns than specified in the first line. Previously, this case resulted in the decoder duplicating the last pattern from the file when it made a request to the DataController. **(DR 10692)**

! The Model Sounding *BufrDriver* process no longer occasionally reports the following errors in its log and fails to process the data: **(DR 10823)**
20:26:34.222 ModelBufrDecoder.C EVENT:
/data/fxa/ispan/bufr/modelSoundings/JUSA42KWNO.06202456.822
20:26:38.016 ModelBufrDecoder.C EVENT: Storing data for station ATLH May 06 02 17:59:28 GMT .....
20:26:41.465 NetcdfPointData.C PROBLEM: Forecast time out of range: -32 for /data/fxa/point/model/ETA/netcdf
20:26:41.467 ModelBufrDecoder.C PROBLEM: No handle for this station info: ATLH and time: May 06 02 17:59:28 GMT
20:26:41.467 ModelBufrDecoder.C PROBLEM: No handle for ATLH for May 06 02 17:59:28 GMT. Skipping to next file.
20:26:41.525 ModelBufrDecoder.C EVENT: Unable to write netcdf data.

/data/fxa/ispan/bufr/modelSoundings/JUSA42KWN

! Performance on LX1 should no longer be slow at times. If the performance problem does appear again, it will likely be short-lived, so use LX2 if necessary until LX1 regains optimum performance speeds. If the performance problem persists, reboot LX1. **(DR 10926)**

! The *notificationServer* no longer removes from the client list any IPC targets that are currently unreachable. This prevents the problem where, when sockets were temporarily closed to open new connections, auto-updating was lost to those closed connections because they were removed from the *notificationServer* client list. **(DR 10945)**

! The fxa cron job that runs every six hours to transmit the CFC product to the Central Radar Server now logs correctly. Previously, the only entry that appeared in the log file was 'Done'. **(DR 11588)**

! Old Alaska profiler data is now purged. **(DR 11679)**

! It is as designed that the scour and purge scripts are identical across the PXs. **(DR 11681)**

! The *BufrDriver poes* process no longer infrequently crashes when trying to decode a bad product. It is now able to successfully move the bad product to the /Bad directory and resume processing. **(DR 11785)**

! The *acarsProfiles* process no longer repeatedly processes some data, and it no longer repeatedly reports "PROBLEM: Unable to update the nChecked value" in its log file. **(DR 11913)**

! The pattern for MDCRS data in the acq_patterns.template file has been changed to IUAX0[12].*. This change was made to allow for successful processing of current and future MDCRS data headers. **(DR 11914)**

! Directories for damcat under /awips/fxa/htdocs/cgi-bin/ohd/dambrkdocs are now scoured. The *scour.conf.as* script now includes entries for the necessary directories. **(DR 11948)**

! The *BufrDriver acars* process no longer infrequently crashes on certain bad products. **(DR 11949)**

! The *notificationServer* no longer crashes after receipt of a reply message from *textDB* that reports null data was returned from a text database read. **(DR 12171)**

! The *IGC* display process no longer infrequently unregisters certain depictables from the *notificationServer* when it is really not supposed to. Previously, this problem caused

individual display panes to stop auto-updating. **(DR 12589)**

! The CP product log is now able to roll over successfully at new day even if the log just rolled over due to reaching its maximum file size. Previously, the log failed to roll over successfully in this situation, resulting in the loss of all SBN data flow for that CP. **(DR 12630)**

6.0 OCONUS

! Alaskan county and city names now appear in WWA text products. **(DR 7935)**

! WWA no longer hangs if all zones are selected when creating a product. **(DR 10475)**

! LSR now launches and is usable at OCONUS sites. **(DR 11158)**

! The LAPS Tool GUI menu item is now present on the D2D Tools menu at Alaska sites. **(DR 11390)**

! The GOES High Density Winds are now monitored by the Netscape Data Monitor at OCONUS sites. Previously, these products were monitored at CONUS sites, but not at OCONUS sites. **(DR 12313)**

! The ensemble grids are now available at OCONUS sites. **(DR 12559)**